

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A method of compressing and recording data of image information on a recording medium according to a decoding and reproducing unit comprising a plurality of frames, the method comprising:

performing compression of inputted image data;

generating additional information about the inputted image data; and

multiplexing an additional information block that includes the additional information generated in the generating step at a block position immediately after a navigation pack and immediately before ~~or after~~ a group of blocks that include compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit, and recording the additional information block on the recording medium,

wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values.

2. (Previously Presented) The method according to claim 1, wherein the additional information comprises one or more of the blocks.

3. (Previously Presented) The method according to claim 2, wherein the additional information block is multiplexed at a predetermined block position and is recorded on the recording medium.

4. (Canceled)

5. (Original) The method according to claim 1, wherein the additional information includes at least information about a time to obtain the image information.

6. (Original) The method according to claim 1, wherein the additional information includes information about a condition of obtaining the image information.

7. (Currently Amended) A recording apparatus that records compressed image data on a recording medium according to a decoding and reproducing unit including a plurality of frames, the apparatus comprising:

a data compression means for performing compression encoding of inputted image data;

an additional information generation means for generating additional information about the inputted image data; and

a recording control means for multiplexing an additional information block that includes the additional information generated by the additional information generation means at a block position immediately after a navigation pack and immediately before ~~or after~~ a group of blocks that include compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit, and recording the additional information block on the recording medium,

wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values.

8. (Previously Presented) The recording apparatus according to claim 7, wherein the additional information comprises one or more of the blocks.

9. (Previously Presented) The recording apparatus according to claim 8, wherein the recording control means multiplexes the additional information block at a predetermined block position and records the additional information block on the recording medium.

10. (Canceled)

11. (Original) The recording apparatus according to claim 7, wherein the additional information includes at least information about a time to obtain the image information.

12. (Original) The recording apparatus according to claim 7, wherein the additional information includes information about a condition of obtaining the image information.

13. (Canceled)

14. (Currently Amended) The recording medium according to claim ~~[[13]]~~ 19, wherein the additional information comprises one or more of the blocks.

15. (Currently Amended) The recording medium according to claim ~~[[14]]~~ 19, wherein the additional information block is multiplexed and recorded at a predetermined block position in the read/write unit.

16. (Canceled)

17. (Currently Amended) The recording medium according to claim ~~[[13]]~~ 19, wherein the additional information includes at least information about a time to obtain the image information.

18. (Currently Amended) The recording medium according to claim ~~[[13]]~~ 19, wherein the additional information includes information about a condition of obtaining the image information.

19. (Currently Amended) A reproducing method ~~for the recording medium according to claim 13~~, comprising the steps of:

reading compressed image information according to ~~a~~ the decoding and reproducing unit from ~~[[the]]~~ a recording medium, decompressing the compressed image information, and reproducibly outputting image information according to the decoding and reproducing unit, wherein the recording medium records inputted image data in a data compression manner according to the decoding and reproducing unit including a plurality of frames, and records an additional information block, the additional information block obtained by multiplexing an additional information block that includes additional information generated by an additional information generation means at a block position immediately after a navigation pack and immediately before a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit and recording the additional information block on the recording medium, wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values; and

extracting the additional information contained in the decoding and reproducing unit and reproducibly outputting the additional information in synchronization with reproduction output of the image information according to the decoding and reproducing unit.

20. (Currently Amended) A reproducing method ~~for the recording medium~~ according to claim 13, comprising the steps of:

reading compressed image information according to the a decoding and reproducing unit from [[the]] a recording medium, decompressing the compressed image information, and reproducibly outputting image information according to the decoding and reproducing unit, wherein the recording medium records inputted image data in a data compression manner according to the decoding and reproducing unit including a plurality of frames, and records an additional information block, the additional information block obtained by multiplexing an additional information block that includes additional information generated by an additional information generation means at a block position immediately after a navigation pack and immediately before a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit and recording the additional information block on the recording medium, wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values; and

extracting the additional information contained in the decoding and reproducing unit, reproducing the additional information in synchronization with reproduction output of the image information according to the decoding and reproducing unit, and using the reproduced additional information to control image information according to the decoding and reproducing unit.

21. (Currently Amended) A reproducing method ~~for the recording medium~~  
~~according to claim 13~~, comprising ~~the steps of~~:

reading compressed image information according to ~~a~~ the decoding and reproducing unit from ~~[[the]]~~ a recording medium, decompressing only encoded image information in the decoding and reproducing unit, wherein the encoded image information belongs to the read and compressed image information and is processed by compression encoding through the use of only image information in the decoding and reproducing unit, and reproducibly outputting the encoded image information in the decoding and reproducing unit repeatedly for the number of decoding and reproducing units fewer than the number of decoding and reproducing units, wherein the recording medium records inputted image data in a data compression manner according to the decoding and reproducing unit including a plurality of frames, and records an additional information block, the additional information block obtained by multiplexing an additional information block that includes additional information generated by an additional information generation means at a block position immediately after a navigation pack and immediately before a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit and recording the additional information block on the recording medium, wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values; and

extracting the additional information contained in the decoding and reproducing unit and reproducibly outputting the additional information in synchronization with reproduction output of the encoded image information in the decoding and reproducing unit.

22. (Currently Amended) A reproducing apparatus ~~for the recording medium~~  
~~according to claim 13~~, comprising:

[[a]] read means for reading compressed image information according to ~~a the~~ decoding and reproducing unit from ~~a the~~ recording medium, wherein the recording medium records inputted image data in a data compression manner according to a decoding and reproducing unit including a plurality of frames, and records an additional information block, the additional information block obtained by multiplexing an additional information block that includes additional information generated by an additional information generation means at a block position immediately after a navigation pack and immediately before a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit and recording the additional information block on the recording medium, wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values;

[[a]] separation means for separating the compressed image information and the additional information from the read means;

[[a]] means for decompressing the compressed image information from the separation means;

[[a]] means for reproducibly outputting the decoding and reproducing unit information out of the decompressed image information; and

[[a]] means for reproducibly outputting the additional information from the separation means in synchronization with reproduction output of the decoding and reproducing unit information.

23. (Currently Amended) A reproducing apparatus ~~for the recording medium~~ according to ~~claim 13~~,

wherein the apparatus reads compressed image information according to a the decoding and reproducing unit from [[the]] a recording medium, decompresses the compressed image information, and reproducibly outputs image information according to the decoding and reproducing unit, wherein the recording medium records inputted image data in a data compression manner according to the decoding and reproducing unit including a plurality of frames, and records an additional information block, the additional information block obtained by multiplexing an additional information block that includes additional information generated by an additional information generation means at a block position immediately after a navigation pack and immediately before a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit and recording the additional information block on the recording medium, wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values; and

wherein the apparatus extracts the additional information contained in the decoding and reproducing unit, reproduces the additional information in synchronization with reproduction output of the image information according to the decoding and reproducing unit, and uses the reproduced additional information to control image information according to the decoding and reproducing unit.

24. (Currently Amended) A reproducing apparatus ~~for the recording medium according to claim 13~~, comprising:

[[a]] read means for reading compressed image information according to a the decoding and reproducing unit from [[the]] a recording medium, wherein the recording medium records inputted image data in a data compression manner according to the decoding



and reproducing unit including a plurality of frames, and records an additional information block, the additional information block obtained by multiplexing an additional information block that includes additional information generated by an additional information generation means at a block position immediately after a navigation pack and immediately before a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit and recording the additional information block on the recording medium, wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values;

[[a]] separation means for separating the compressed image information and the additional information from the read means;

[[a]] means for decompressing only encoded image information in the decoding and reproducing unit, wherein the encoded image information belongs to the compressed image information from the separation means and is processed by compression encoding through the use of only image information in the decoding and reproducing unit,

[[a]] means for reproducibly outputting the decompressed encoded image information in the decoding and reproducing unit repeatedly for the number of decoding and reproducing units fewer than the number of decoding and reproducing units; and

[[a]] means for reproducibly outputting the additional information from the separation means in synchronization with reproduction output of the encoded image information in the decoding and reproducing unit.

25. (Currently Amended) An imaging apparatus, comprising:

an imaging element;

an imaging optical system for forming an object image on the imaging element;

a data compression means for performing compression encoding of image data inputted from the imaging element;

an additional information generation means for generating additional information about the image data inputted from the imaging element; and

a recording control means for multiplexing an additional information block that includes the additional information generated by the additional information generation means at a block position immediately after a navigation pack and immediately before ~~or after~~ a group of blocks including compressed image information processed by compression encoding through the use of only image information in the decoding and reproducing unit, and recording the additional information block on the recording medium,

wherein the additional information includes capturing condition values, which include at least diaphragm adjustment and exposure values.

26. (Previously Presented) The imaging apparatus according to claim 25, wherein the additional information comprises one or more of the blocks.

27. (Previously Presented) The imaging apparatus according to claim 26, wherein the recording control means multiplexes the additional information block at a predetermined block position and records the additional information block on the recording medium.

28. (Canceled)

29. (Original) The imaging apparatus according to claim 25, wherein the additional information contains information about a time of capturing the image information.

30. (Original) The imaging apparatus according to claim 25, wherein the additional information contains information about a capturing condition of obtaining the image information.

31. (New) The method of claim 1, wherein the multiplexing step comprises multiplexing only one additional information block in a video object unit corresponding to each group of blocks.